

20020606.ba v03\_n345.bam.20020606

>From ???@??? Thu Jun 6 00:27:36 2002 -0500  
Message-Id: <200206060527.g565RTlc015323@sco.theporch.com>  
Date: Thu, 6 Jun 2002 00:27:05 CDT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 3345

BOATANCHORS Digest 3345

Topics covered in this issue include:

- 1) Re: Do you Have Any Projects on the Bench?  
by Arden Allen <gumbear@pacbell.net>
- 2) USS COBIA Project Update and Needs  
by Tom Aschenbrenner <boat@Aschen.com>
- 3) Re: Do you Have Any Projects on the Bench?  
by john <johnmb@nc.rr.com>
- 4) ST. James Gray  
by Raymond Cote <rjcote@hawaii.rr.com>
- 5) Ranger transformers or data WTD  
by "James B. Beyer" <beyer@eceserv0.ece.wisc.edu>
- 6) Electrolytic reforming  
by "Bill Hawkins" <bill@iaxs.net>
- 7) Re: Do you Have Any Projects on the Bench?  
by "Jon Pevner" <jpevner@charter.net>
- 8) Electrolytic reforming  
by Mike Sewell <k0crx@earthlink.net>
- 9) Re: Do you Have Any Projects on the Bench?  
by "Al Parker" <anchor@ec.rr.com>
- 10) RE: Projects on the bench  
by "Richard Humphrey" <n6nae@ix.netcom.com>
- 11) RE: .....Projects on the Bench?  
by "Edward Zeranski" <ezeran@concentric.net>
- 12) RE: Do you Have Any Projects on the Bench?  
by Morris Odell <Morris0@vifp.monash.edu.au>
- 13) Re: Do you Have Any Projects on the Bench?  
by Bob Roehrig <broehrig@aurora.edu>
- 14) RE: Do you Have Any Projects on the Bench?  
by "WF2U" <wf2u@starband.net>
- 15) Re: Electrolytic reforming  
by Arden Allen <gumbear@pacbell.net>
- 16) RE: Do you Have Any Projects on the Bench?  
by Don Reaves W5OR <w5or@comcast.net>
- 17) BA POWERS AND ICD  
by KN5VOL@aol.com
- 18) RE: Do you Have Any Projects on the Bench?

by "Gary Harmon" <gharmon@idworld.net>

-----  
Date: Wed, 05 Jun 2002 15:07:33 -0700  
From: Arden Allen <gumbear@pacbell.net>  
Subject: Re: Do you Have Any Projects on the Bench?  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <0GX900ETD6S80N@mta7.pltn13.pbi.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=ISO-8859-1  
Content-transfer-encoding: 7bit

> Are David and I the only guys on the list with interesting projects on  
the  
> bench??

Well Scott, it's encouraging to see the responses coming in. As for myself, I began a complete rebuild of a BC-342 almost a year ago but it got deprioritized when other needs pressed in. Such as a smoking power transformer on a previously completed Lafayette HE-10 for which I finally flushed a suitable replacement out of the garage. And then a pair of McIntosh 75 hi-fi amps, which with their triode connected KT88/6550 outputs and unity coupled transformers, produce such low distortion level audio that my test equipment is pushed to the limit of its capabilities. No wonder they fetch such outrageous prices on ePuddle. While the '342 sits, in a 1000 pieces on one end of the bench, I then went for instant gratification and have completed several "AA5" restorations which has been a delightful series of short projects because of the variety of circuits I encountered. The 30's and 40's were full of many different circuits and tube lineups. My latest was a Westinghouse 522 with a 300 mA series string arrangement, a pair of 25L6 p-p outputs and 25Z6 rectifier with several of our familiar 6 volt friends. With a full 2 watts of output it is a LOUD radio. I've discovered AA4's, AA6's AA7's and AA8's! I guess I'll have to get back to the heavy stuff one of these days.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

-----  
Message-ID: <3CFE8DD7.D7D56362@Aschen.com>  
Date: Wed, 05 Jun 2002 17:16:55 -0500  
From: Tom Aschenbrenner <boat@Aschen.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: USS COBIA Project Update and Needs  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just got back from another work week at the boat. This time slot was spent restoring the TBL transmitter. The Motor Generator set (not your average dynamotor...it's 2ft in diameter,5ft long!) took a bit of time since it hadn't been run in about 35 years! Went thru the bearings: cleaned and lubed. Same with commutator and brushes. Upon power up it was a thing of beauty to hear. After about a minute it started to squeal, sheese I thought immediately of a bearing problem. Turns out after removing the generator brushes (all of them: 250VDC,1000VDC,2000VDC, and 220VAC) it was real quite. Just had to redo the brush surface and all was well. After removal of 60 years of grime and lots of component cleaning the TBL came to life in the tune position since I didn't have a couple of 200W light bulbs for a dummy load. It worked for about 30 minutes then nothing. The hunt begins on the next trip.

I started the physical look-see on the SJ-1 radar as well as the ST. Both will be able to be restored to operation as they are in good shape. The SD radar is hopeless since its operating freq is 116 Mhz (that's right, 116MHz - 100KW pulse power).

Does anyone on the list have any of the following tubes that I could use in the restoration of the SJ-1 and then spares?

WE721  
5D21  
WE705A  
WE717A  
WE726B  
WE706AY,BY, or CY

Any help would be appreciated.

Tom A

-----  
Message-Id: <3.0.3.32.20020605182944.01e1a2a8@pop-server.nc.rr.com>  
Date: Wed, 05 Jun 2002 18:29:44 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: john <johnmb@nc.rr.com>  
Subject: Re: Do you Have Any Projects on the Bench?  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 11:13 AM 6/5/02 -0500, Freeberg, Scott (STP) wrote:  
>Are David and I the only guys on the list with interesting projects on the  
>bench?? 73, Scott WA9WFA in Saint Paul Minn

>

Hi Scott!

I've got an SX9 almost ready to roll (recapped by restuffing all the old paper cap tubes w/new axial polys then re-waxing the outsides). Hot on it's heels is the Wards Airline version of the SX-5. Also lurking nearby is an HBR-11 that needs some minor work but has shown to be working FB.

Most of my time recently has been spent getting ready to put up a tower and a Cushcraft 4 el "quad bander". This has entailed such enjoyable (?) tasks

as digging up stumps in 95 degree N. Carolina weather and cutting down, sawing up and hauling away (in a wheelbarrow) about ten 40' pine trees to clear an area in my woods to erect said antenna. I'm getting close to the fun part

of actually installing the tower and all the assorted and sundry items required to keep it vertical for a while. Hope this makes me easier to hear on

the VSSB net! Only 2 more trees to drop too!

Projects? There's many many dozens of projects! I'd like to get to the Collins 550 B'cast rig running, or my Collins 32RA I just found the tuning units for, or the RME 69 w/integral DB20 preselector that'd be great for the AWA events or the Globe Champ 165, or the 300, or the King 400.... plus time for "family" things etc etc etc....

.....projects? "We got PROJECTS!" (And I've got an understanding wife!)

73

John wb5oau

-----  
Message-ID: <3CFE9DBC.572F4083@hawaii.rr.com>  
Date: Wed, 05 Jun 2002 13:24:44 -1000  
From: Raymond Cote <rjcote@hawaii.rr.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: ST. James Gray  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

1st. With all this talk about restoring and re-painting, especially with the orig color being St. James Gray, How does one re-paint a cabinet with St. James Gray wrikle when all I have is bulk paint?

2nd. What equipment came in original ST. James Gray color scheme?

Wondering mind with too many projects.

Ray

-----  
Date: Wed, 05 Jun 2002 19:48:26 -0500  
From: "James B. Beyer" <beyer@eceserv0.ece.wisc.edu>  
Subject: Ranger transformers or data WTD  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <v04011700b9245f4aa9cb@[128.104.50.174]>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

I have a Ranger with no driver transformer and a fried modulation transformer. Does anyone know of a source for such transformers or for data so that the mod xfmr could be rewound. (It's burned so badly that the turns can't be counted.) Thanks.

73,

Jim W9ADJ

-----  
From: "Bill Hawkins" <bill@iaxs.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Electrolytic reforming  
Date: Wed, 5 Jun 2002 19:57:26 -0500  
Message-ID: <004f01c20cf5\$20234b60\$290aa8c0@darius>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

John Kolb wrote,

"And to get serious finally, what's the max current I should use reforming electrolytic caps? And when the current decreases to what amount at rated voltage, do I consider the process complete?"

Well, let's see if I've learned anything here over the years.

An electrolytic cap is inherently a wet process. It uses a conductive electrolyte absorbed in a layer of something like blotting paper. This paper is wound between two strips of aluminum with an insulating fourth layer. The cap is formed by passing direct current through the electrolyte. This causes a thin dielectric to form on one of the aluminum strips. The conductive paper is one side of the cap, and the aluminum strip with the dielectric layer is the other side.

So, first the cap must still be wet. Leakage is good.

Second, it must have some capacitance. Otherwise, large parts of it are dry.

If those two checks are OK, pass direct current through it in the right direction. How much, you ask? Not so much as to boil a patch of electrolyte or exceed the voltage rating, and not so little as to take forever to form. Great claims were made for a vacuum tube current source of 10 milliamps, clamped to just above the rated voltage of the cap. I'd be concerned about dissipating four watts in a 450 volt cap.

After the 10 ma charge has run its course, check the capacitance. If it isn't more than 60% of rated, throw it away. If the current at rated voltage is below one milliamp per hundred MFD (less for big low voltage caps) you can't add much capacitance by further reforming time. But capacitance is your target, not leakage, within reason.

That's what I've heard and retained. My experience has been that it either has rated capacitance or it doesn't. If it doesn't, you can't bring it back. I don't check 'em for leakage. If the capacitance is there, I turn on the set and let nature take its course. Usually there's no capacitance if there's electrolyte residue around the terminal seals. This means the cap got hot and boiled away its electrolyte.

Would like to hear stories of successful reforming. What were the initial conditions, and what did you have for leakage and capacitance when you were done? How'd you do it? That sort of thing.

Regards,  
Bill Hawkins

-----  
Message-ID: <005d01c20cf8\$bb834440\$b271a842@andromeda>  
From: "Jon Pevner" <jpevner@charter.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Do you Have Any Projects on the Bench?  
Date: Wed, 5 Jun 2002 21:23:15 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Here's my list:

Just completed 75A-4

In process:

RCA AR-60(cleaned, working on electronics)

KWS-1(still on PS electrolytic replacements)

To Do:

Marconi Atalanta(unknown functionality)

R-390 (Non-A, cleaned, re-painted and relubed, but no electronic/alignment done yet)

Racal Setup with MA-79 exciter (bent in shipment).

CE 100V(started , may never finish- anyone game??)

CV-157 (used to work, see above)

Strange miscellany in basement

Tweaks of other gear

I recently sold quite a few rigs because I knew I was just never going to get to them at my current snail's pace. Better someone get to use them than sit on a shelf collecting dust.

de Jon (N1LIS)

----- Original Message -----

From: "Freeberg, Scott (STP)" <Scott.Freeberg@guidant.com>

To: "Old Tube Radios" <boatanchors@theporch.com>

Sent: Wednesday, June 05, 2002 12:13 PM

Subject: Do you Have Any Projects on the Bench?

> Are David and I the only guys on the list with interesting projects on the  
> bench?? 73, Scott WA9WFA in Saint Paul Minn  
>

-----  
Message-ID: <3CFEBC39.6010106@earthlink.net>

Date: Wed, 05 Jun 2002 20:34:49 -0500

From: Mike Sewell <k0crx@earthlink.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Electrolytic reforming

Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: quoted-printable

I use a Heathkit model IT-11 capacitor checker. Connect the cap to be=20 tested (in this case, reformed), set the unit to leakage test and the=20 voltage selector to minimum. Bring the voltage up a set at a time. Do=20 not advance to the next higher voltage until the 'eye' is open. This=20 may take seconds or minutes at lower voltages or hours nearer to rated=20 WV. If it looks like its going to take a LONG time, I just walk away=20 and come back later. If the eye is open, I advance to the next voltage=20 level. Repeat the process until rated cap voltage is reached. If the=20 eye doesn't open within a reasonable time (hours), I consider the cap a=20 lost cause.

This technique is not very scientific and can be pretty slow, but, works =  
like a charm!!

73, Mike

K =D8 Collects Radios eXclusively

-----  
Message-ID: <054901c20cfa\$b2805f70\$6501a8c0@w8ut>  
From: "Al Parker" <anchor@ec.rr.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Do you Have Any Projects on the Bench?  
Date: Wed, 5 Jun 2002 21:37:19 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi folks,

I'll add my 2 cts worth I suppose. I usually follow this sorta thread for a day or 3, then just delete the later ones, so maybe everyone's in the delete mode by now.

I think the original questions was, "what's on the bench (being worked on)", not "what's in the queue". We've all got a big queue, note the comments I've seen & tacked on below.

I've just finished 2 HQ-170's. Took an SX-42 off the bench while wating for a rewind pwr xfmr, it's arrived, but still not back on the bench. There's a WR-3000 there now, not a BA, but it is Hallicrafters. Down stairs I've just started an SP-600. I usually keep at least 2 different things going at the same time, so when I get to the "non-enjoyment," or frustration,point (sometimes only takes an hour) on one, I can go to the other. Often there's something like a multi-meter, or household appliance, that's apart & waiting for batteries or parts, etc. (or just plain waiting for attention). When I fix or give up on teh WR3000, the SX-42'll get finished, all it needs is the xfmr & final alignment. The xfmr smoked in the process, after it had been working for short times over several months.

My queue is a long one too, and I can tell you, retirement doesn't seem



to help giving you more time. I think before, I just crammed more into a weekend's time, and probably worked more efficiently.

----

Ed said, "Thank goodness I'm relatively young!"

John P said, "Good heavens, I have more than I will probably ever get to." (how many of us does that apply to?)

Ralph said, "All I need is more time - I'm semi-retired and don't have enough for all the projects which are waiting on the shelf, never mind the above, which are actually on the bench with their feet up." (I've seen pix of his shelves)

Grant said, "If I didn't have to work for a living, I might actually have TIME for this hobby."

Phil said, "At least my wife is smart enough to hire someone for the non-radio projects such as roof, house painting, etc"

John (mb) said, ".....projects? "We got PROJECTS!" (And I've got an understanding wife!)" (I know about a lot of his projects)

(I probably missed some neat comments, sorry)

----

73,

Al, W8UT

New Bern, NC

BoatAnchors appreciated here

<http://www.thecompendium.net/radio/>

<http://www.hammarlund.info>

----- Original Message -----

From: "Freeberg, Scott (STP)" <Scott.Freeberg@guidant.com>

To: "Old Tube Radios" <boatanchors@theporch.com>

Sent: Wednesday, June 05, 2002 12:13 PM

Subject: Do you Have Any Projects on the Bench?

> Are David and I the only guys on the list with interesting projects on the

> bench?? 73, Scott WA9WFA in Saint Paul Minn

>

-----

Message-ID: <4120026462235980@ix.netcom.com>

From: "Richard Humphrey" <n6nae@ix.netcom.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: Projects on the bench

Date: Wed, 5 Jun 2002 19:23:59 -0700

MIME-Version: 1.0

Content-Type: multipart/alternative;

boundary="-----\_NextPart\_84815C5ABAF209EF376268C8"

-----=\_NextPart\_84815C5ABAF209EF376268C8

Content-type: text/plain; charset=US-ASCII

Hi:

That's a joke, right? I can't see the bench for the projects on it.

One R-390A. RF deck in pieces to replace several cracked clamps. Now I have an appreciation for those guys who rebuild automatic trannys or wristwatches. It's really not that hard, just go slow and label everything. Also probably should replace the 'brown leakers' in the IF chassis with some good caps, and change out the mechanical filter 'self destruct' cap. Oh and that tantalum in the audio chassis.

My Tek 7904A mainframe. It's developed an intermittent defocus problem. Lord don't let it be the CRT.

HP 334A distortion analyzer. Just finished building it from two basket cases. Now I need to check the calibration.

One big LED electronic sign board that should make one heck of a digital clock. Should be able to read the time from a block away.

And so it goes.

--- Richard Humphrey

--- n6nae@ix.netcom.com

-----=\_NextPart\_84815C5ABAF209EF376268C8  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*

\* ---REMAINDER OF MESSAGE TRUNCATED--- \*

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\* If your postings display this message your mail program \*

\* is not set to send PLAIN TEXT ONLY and needs adjusting \*

\* \* \* \* \*

-----=\_NextPart\_84815C5ABAF209EF376268C8--

-----

From: "Edward Zeranski" <ezeran@concentric.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: .....Projects on the Bench?  
Date: Wed, 5 Jun 2002 19:18:26 -0700  
Message-ID: <FHEBKNEBHGNPDPLBMCNEMEDCCDAA.ezeran@concentric.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Darn!

I thought I could get away with listing what was 'on ye olde bench'. If'n y'all want to list stuff on industrial shelves that I've promised done we could write a tome!!! Probably some will be there when I become a ground stake. =: ^)

-----

Message-ID:  
<07A064EA6042D4118A62009027F70E77181FDD@nt\_exchange.vifp.monash.edu.au>  
From: Morris Odell <MorrisO@vifp.monash.edu.au>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Do you Have Any Projects on the Bench?  
Date: Thu, 6 Jun 2002 12:41:16 +1000  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Hi all,

Gee, between all the replies that have been posted, people seem to have an enormous number of projects going - lots of drool material there...

My own rather humble list:

Just finished restoring an Australian ACAS 16303 naval receiver - a real

heavyweight from the 1960s. This is a double conversion design with a huge turret to change bands between 40 KHz and 30 MHz. It needed painting, recapping and restringing of a most diabolical cord driven BFO. It also had a death trap homebrew power supply.

>From the same manufacturer, a R5223 Army receiver. This is a "sorta" copy of the 51J4 with a similar frequency scheme, but built in a most complex & rugged fashion, looking nothing at all like the Collins. The electronics modules are sealed and will need to be unsoldered for re-resistoring and re-capping. Only a few of the 32 bands work. See <http://www.shlrc.mq.edu.au/~robinson/museum/R5223.html>

A Tek 543 that I'm picking up this week and I'm told looks like it was kept in a chicken coop!

A subtle fault in the Racal RA66 panadaptor which affects the receiver tuning marker on the display. This fault could be anywhere from the RA-17 receiver to the panadaptor, both extremely heavy!

A nixie clock, almost finished (solid state but uses lovely old nixies)

A new controller for the magnetic loop antenna I use on HF

The real challenge: I have managed to find the top half of a FRR-59A receiver. This is the IF, detector, AGC & audio sections. I've been looking for the RF front end ever since to no avail. It must be somewhere in the country (hopefully not in a landfill or someone's junk box). If all else fails I might one day have to consider importing one :-)

Completed projects in the last 12 months include:

Complete recondition of a R392 and its death trap homebrew ps

Restoration of a CV-157

Restoration & cal of a Tek 556 which is the current resident bench scope

Construction of a thyristor controlled 400 Hz 115 volt rotary inverter power supply

Rebuild of my multicoupler & receiver audio distribution unit

Recapping & alignment of an Eddystone 770R VHF reciver that I use for entertainment

Retrofit of an original AM tuner into my Australian Byer 66 tape recorder (only Aussies will appreciate what this means - those tape recorders are

masterpieces of mechanical & vacuum tube technology which were world class in their day. Absolutely beautiful magnificent instruments which were used in all radio & recording studios in this country for many years.)

Morris

-----  
Date: Wed, 5 Jun 2002 21:44:02 -0500 (CDT)  
From: Bob Roehrig <broehrig@aurora.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Do you Have Any Projects on the Bench?  
Message-ID: <Pine.OSF.4.43.0206052138200.501686-100000@mail.aurora.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Not much really. About the only thing lacking is a power supply for my recently acquired Stoddard NM-10 interference/field strength meter. In case it doesn't ring a bell, this is a 4 band superhet tuning 14 to 250 KC with a meter calibrated in microvolts. With the recent interest in LF/MF bands, this could be a handy unit.

73            Bob Roehrig            K9EUI  
Aurora University Telecom/IS dept.  
630-844-4898    broehrig@aurora.edu

-----  
From: "WF2U" <wf2u@starband.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Do you Have Any Projects on the Bench?  
Date: Wed, 5 Jun 2002 23:57:23 -0400  
Message-ID: <NABBLNEJDDKECLKHCAAPEECPHMAA.wf2u@starband.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

My first project (not on the bench) is to build my radio room, which right now is occupying our 2 car garage, since we moved in this here digs in Landrum, SC. It's going to be about 24' x 24'. Then the bench can move in, on which I have a few hot ones: an Australian WW2 military receiver, model A.679-H is waiting for a paint touch-up on the front panel and case - it works great. Then I'll finish the power supply for the Canadian Marconi CM11 HF transmitter and CSR5A receiver console (Royal Canadian Navy, 1944 vintage) so I'll be able to get this 100 W transmitter/receiver combo on the air. The Canadian Marconi PV500HM transmitter (manufactured in 1943, Royal

Canadian Navy 500W CW on HF) is awaiting cleaning up, final test and a paint job, and then I can work on constructing an operating mockup of a "generic" Canadian Navy ship's radio room from late WW2.

I'm also in the middle of the restoration of a Canadian Army Wireless Set 52 (HF Transmitter/receiver combo, 80W, mine was manufactured in 1944 by Canadian Marconi). At this point both receivers in the system are working fine, the transmitter is only putting out about 15 W. The bias circuit is the suspect...

A US Navy GO-9 transmitter (mine was "inducted" into the Navy in December, 1940, a year before Pearl Harbor), is waiting patiently for a power supply. These are my major projects. I'm not even going to mention the minor ones...  
73, Meir WF2U

-----  
Date: Wed, 05 Jun 2002 21:16:03 -0700  
From: Arden Allen <gumbear@pacbell.net>  
Subject: Re: Electrolytic reforming  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <0GX900MEWOPCVU@mta6.snfc21.pbi.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=ISO-8859-1  
Content-transfer-encoding: 7bit

Hi Bill;

I suppose your theory that an electrolytic could be partially dried out and possess a fraction of its original capacitance has merit but I don't find it to be compelling. I must have checked a 1000 capacitors and they only fell into two groups, those that had and those that didn't. The 'hads' showed their normal capacitance on a tester, despite their degree of deformation, and the 'didn'ts' showed virtually zero capacitance. The 'didn'ts' subdivide into two groups, those that were completely dried out and those that were open due to the internal connections having corroded through. The dried out ones were very old having originally contained a large amount of liquid or were of the paper type that just dried out due to their poor hermeticity. So I think your concept of dry and wet patches doesn't hold water, if you'll forgive the pun.

A cap that will eventually reform to a low leakage level will do so quickly or slowly for reasons I don't understand. No doubt it has something to do with the state of their chemistry. But some reform somewhat and then refuse to decrease their leakage any more. Those get to take a truck ride or get gutted so the can can hide a modern miniature cap or two. Caps that have reformed quickly to their full rated voltage, which I do on a Sprague TO-4 or a Heathkit PS-4 power supply (with series resistor), can be trusted. Caps that take several days to get down can't be trusted until

they have been able to demonstrate their ability to withstand several cycles of heating and cooling in their normal operating circuit. I seldom go that route unless the cap is difficult to find a replacement for.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

-----  
Date: Thu, 06 Jun 2002 00:10:33 -0500  
From: Don Reaves W5OR <w5or@comcast.net>  
Subject: RE: Do you Have Any Projects on the Bench?  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <GDEHIALJFKJECMCBANPPCEBOCOAA.w5or@comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

These reports are great! What diverse gear our workbenches hold.

My stuff:

HP-606B, bad case of hardened grease in the sealed turret band switch. It had just about stopped turning, and the dial pointer lagged actual switch detent by 2 or 3 seconds. Repeated soaking and draining with TF solvent over the course of a month and finally it freed up. A bit of light lube and it works well now. Just have to get all the covers back on.

Drake 2B, pulled off the shelf last week to help check a DX-40, found it works ok on 80M, motorboats on 40, dead on other bands. ??

51S-1 receiver with a perplexing self-induced operator problem. The operator (yours truly) accidentally plugged a 600 ohm speaker into the sidetone input, and since then the audio chain malfunctions in the CW/SSB mode. (These two RCA plugs, sidetone and 600 ohm speaker output, are next to each other on the rear panel). I suspect the only transistor in the radio is defective, an audio preamp driving half a 12AXY and the infamous overheating 6BF5 output. But it is buried on one of those turret towers of spaghetti wiring and components! Have to devise an attack plan with an otherwise clear workbench...

Don Reaves W5OR  
w5or@comcast.net

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From: KN5VOL@aol.com  
Message-ID: <b8.287aaae3.2a304c9a@aol.com>  
Date: Thu, 6 Jun 2002 01:26:50 EDT  
Subject: BA POWERS AND ICD  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_b8.287aaae3.2a304c9a\_boundary"

--part1\_b8.287aaae3.2a304c9a\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Fellas,

My primary interest in BA gear is to use them on the air. All of mine put out 100-150 watts on 160 thru 10 meters (not all on all bands). Last week I had an ICD implanted in my chest. I need to know if there are any problems running the BA's with this. Bear in mind, I have a link tuner unshielded in the shack, and a tuner with an end fed 135 foot wire. Also I run an SB-34 mobile - any problems ?

Thanks - K5VOL

--part1\_b8.287aaae3.2a304c9a\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
\* This post contains a forbidden message format \*  
\* (such as an attached file, a v-card, HTML formatting) \*  
\* Mail Lists at theporch.com only accept PLAIN TEXT \*  
\* If your postings display this message your mail program \*  
\* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
\* \* \* \* \*

--part1\_b8.287aaae3.2a304c9a\_boundary--

-----  
From: "Gary Harmon" <gharmon@idworld.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Do you Have Any Projects on the Bench?  
Date: Thu, 6 Jun 2002 00:29:20 -0500  
Message-ID: <LKBBJFJHLNHAIBLNCHMEGEBILHAA.gharmon@idworld.net>  
MIME-Version: 1.0



Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bench, what bench?

Here at the present.....

SX-88 receiver for new bezel and redone panel.

KWM-2A/PM-2 for front plastic repair and checkout.

32S-2/75S-2/30L-1/312B-4/AC PS for run up and smoke test.

HA-14 and HP-24 for test.

SB-200 for input circuit repair-always wants to key the relay.

Cubic Astro 103 for periodic touchy feely. Cool radio. Extra pilot light in PS panel.

National NCL-2000 - dead through and through.

Man, I love this hobby!!!

73, gary

=====  
Gary H. Harmon, Jr.  
K5JWK  
6302 Robin Forest  
San Antonio, TX 78239  
(210) 657-1549 <Home>  
(210) 884-6926 <Sprint>  
=====

-----Original Message-----

From: owner-boatanchors@theporch.com  
[mailto:owner-boatanchors@theporch.com]On Behalf Of Don Reaves W5OR  
Sent: Thursday, June 06, 2002 12:11 AM  
To: Old Tube Radios  
Subject: RE: Do you Have Any Projects on the Bench?

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Don Reaves W5OR  
w5or@comcast.net

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End of BOATANCHORS Digest 3345  
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